

PATENT

Amendments to the Claims

1. (currently amended) An electrical connector comprising:
a base portion configured for stationary mounting to a circuit board; and
~~an interface portion having at least one lug configured for mating to a plug assembly to be driven by a rotatable part of a mating connector, said interface portion received within said base portion, and wherein said interface portion is configured and connected for rotational movement relative to said base portion when a predetermined torque is applied to said interface portion by said rotatable part driving said at least one lug.~~
2. (original) The electrical connector of Claim 1 further comprising a torque limiting member between said base portion and said interface portion, said torque limiting member configured to limit the torque transferred from said interface portion to said base portion.
3. (original) The electrical connector of Claim 1 further comprising a torque limiting member between said base portion and said interface portion, said torque limiting member including a friction element configured to limit the torque transferred from said interface portion to said base portion through said friction member.
4. (original) The electrical connector of Claim 1 wherein said base portion comprises at least one mounting post for mounting said base portion to the circuit board.
5. (original) The electrical connector of Claim 1 wherein said base portion is configured for surface mounting to the circuit board.
6. (original) The electrical connector of Claim 1 further comprising a flange projecting from said interface portion.
7. (original) The electrical connector of Claim 1 further comprising a collar coupled to one of said base portion and said interface portion.
8. (original) The electrical connector of Claim 1 further comprising a torque limiting member between said base portion and said interface portion, said torque limiting member

PATENT

configured to bias said interface portion against said collar to maintain an electrical connection therebetween.

9. (original) The electrical connector of Claim 1 wherein said interface portion includes a longitudinally extending cavity therethrough and a signal contact within said cavity, said interface portion being rotatable with respect to said signal contact.

10. (original) The electrical connector of Claim 1 wherein said interface portion includes an interior region having a dielectric therein, said dielectric defining a longitudinally extending cavity therethrough, said cavity having a first diameter, said dielectric having a second diameter different from said first diameter, and said dielectric having a dielectric constant, said first and second diameters and said dielectric constant determining a characteristic impedance for said connector.

11. (original) The electrical connector of Claim 1 wherein said base portion and said interface portion comprise a coaxial connector.

12. (currently amended) An electrical connector comprising:
a base portion configured for stationary mounting to a circuit board;
an interface portion having at least one lug configured for mating to a plug assembly to be driven by a rotatable part of a mating connector, said interface portion received within said base portion and connected for rotation relative to said base portion when torque is applied to said interface portion by said rotatable part driving said at least one lug; and
a torque limiting member engaging said base portion and said interface portion and arranged to limit the torque transmitted to said base portion from said interface portion.

13. (original) The electrical connector of Claim 12 wherein said torque limiting member comprises a friction element configured to limit the torque transferred from said interface portion to said base portion through said friction member.

14. (original) The electrical connector of Claim 12 wherein said base portion comprises at least one mounting post for mounting said base portion to the circuit board.

PATENT

15. (original) The electrical connector of Claim 12 further comprising a flange projecting from said interface portion.

16. (original) The electrical connector of Claim 12 further comprising a collar coupled to one of said base portion and said interface portion.

17. (original) The electrical connector of Claim 12 wherein said torque limiting member is configured to bias said interface portion against said collar to maintain an electrical connection therebetween.

18. (original) The electrical connector of Claim 12 wherein said interface portion includes a longitudinally extending cavity therethrough and a signal contact within said cavity, said interface portion being rotatable with respect to said signal contact.

19. (original) The electrical connector of Claim 12 wherein said base portion and said interface portion comprise a coaxial connector.

20. (original) A coaxial connector comprising:

a housing having an upper mating end, a lower end, and a contact cavity extending therebetween;

a base portion configured for stationary mounting to a circuit board, said base portion configured to receive said mating end of said housing;

a torque limiting member engaging said base portion and said housing to limit the torque transmitted to said base portion from said housing;

a collar coupled to one of said base portion and said housing, said collar urging said torque limiting member, said base portion, and said housing in contact with one another; and

wherein said housing is rotatable with respect to said base portion when a predetermined torque is applied to said housing.

21. (original) The connector of Claim 20 wherein said housing includes a circumferential flange configured for engagement with said torque limiting member.

22. (original) The connector of Claim 20 wherein said housing is rotatable with respect to a contact within said contact cavity.

PATENT

23. (original) The connector of Claim 20 wherein said torque limiting member is configured to bias said housing against said collar to maintain an electrical connection therebetween.

24. (original) The connector of Claim 20 wherein said torque limiting member comprises a friction element.

25. (original) The connector of Claim 20 wherein said contact cavity extends through a dielectric within an interior of said housing, said contact cavity having a first diameter, said dielectric having a second diameter at an outer periphery thereof, said contact having a third diameter at an outer periphery thereof, said housing having a fourth diameter at an inner surface thereof, and said dielectric having a dielectric constant, said first, second, third, and fourth diameters and said dielectric constant determining a characteristic impedance for said connector.